

WHAT IS CLAIMED IS:

1. A revenue meter which is enclosed within an enclosure, the revenue meter measuring the delivery of electrical energy from an energy supplier to a consumer through a first electric circuit, the revenue meter comprising:

an interface link;

an I/O device physically separate from the enclosure of the revenue meter, operative to connect said interface link of the revenue meter to said I/O device, wherein said I/O device connects to at least one second electric circuit.

2. The revenue meter according to claim 1, wherein said I/O device further includes a microprocessor operative to process signals within said second electric circuit to communicate at least one I/O signal.

3. The revenue meter according to claim 1, wherein said I/O device is powered by the revenue meter.

4. The revenue meter according to claim 1, wherein the revenue meter accurately timestamps transition times of at least one input of said I/O device.

5. The revenue meter according to claim 1, further comprising:  
bayonet terminals disposed on the revenue meter mateable with matching jaws of a detachable meter mounting device; and  
a seal connected between the revenue meter and said detachable meter mounting device, said seal operative to prevent removal of the revenue meter and indicate tampering with the revenue meter.

6. The revenue meter according to claim 1, further comprising:  
a display;  
terminals disposed on a bottom side of the revenue meter for coupling the revenue meter with the first electric circuit;

a meter cover operative to enclose the revenue meter and said display;

a terminal cover for covering said terminals; and

a first seal connected with said meter cover and operative to prevent removal of said meter cover.

7. The revenue meter according to claim 1, further comprising:

a draw-out chassis coupled with the revenue meter and operative to fit within a switchboard enclosure;

terminals disposed on said chassis for engaging matching terminals within said enclosure;

a display;

a meter cover operative to enclose the revenue meter and said display within said switchboard enclosure; and

a seal connected with said meter cover and operative to prevent removal of said meter cover and indicate tampering with the revenue meter.

8. An I/O device for use with a revenue meter, the revenue meter measuring the delivery of electrical energy from an energy supplier to a consumer through a first electric circuit and including an interface link, the I/O device comprising:

a connector located on the I/O device being operative to connect the I/O device via the interface link to the revenue meter, wherein the I/O device is physically separate from the revenue meter; and

a microprocessor operative to process and communicate at least one I/O signal.

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